CLAIMS

What is claimed is:

1   1.   An integrated tracing and logging system employed within a network comprising:

2   a tracing module associated with specified program code regions of an application,

3   the tracing module to receive and process tracing method calls generated by the application

4   when the specified program code regions are executed;

5   a logging module associated with specified categories related to the network, the

6   logging module to receive and process logging method calls from network components

7   associated with the categories;

8   an output destination to receive a message from at least one of the tracing module and

9   the logging module; and

10   a formatter to determine a message format for the received message.

1   2.   The system of claim 1, wherein the formatter is one of a list formatter, a human-

2   readable formatter, and a markup language formatter.

1   3.   The system of claim 1, wherein one or more properties of the formatter are defined in

2   a configuration file.

1   4.   The system of claim 3, wherein the configuration file includes an identifier to identify

2   the formatter.

1   5.   The system of claim 3, wherein the one or more properties are formatted as key-

2   value-pair properties, each key-value pair having a key to specify an attribute and a value to

3   provide a definition for the specified attribute.

1   6.   The system of claim 3, wherein the configuration file defines the message format for

2   the received message, the message format including one or more fields.

1   7.   The system of claim 6, wherein the one or more fields of the message format includes

2   at least one of

3   a timestamp field to indicate a time for the received message;

4   a location of origin field to indicate a source of the received message;

5   a thread identifier field to indicate a thread associated with the received message;

6   a message severity indicator field to indicate a severity level of the received message;

7   and

8   a message identifier field to identify the received message.

1   8.   The method of claim 1, wherein the output destination is at least one of

2   a trace file; and

3   a log file.

1   9.   The method of claim 1, wherein the output destination is a console.

1   10.   A computer-implemented method employed within a network comprising:

2   creating an instance of a tracing controller associated with specified program code

3   regions of an application, the tracing controller instance to receive and process tracing

4   method calls generated by the application when the specified program code regions are

5   executed;

6   creating an instance of a logging controller associated with specified categories

7   related to the network, the logging controller to receive and process logging method calls

8   from network components associated with the categories;

9   specifying an output destination to receive a message from at least one of the tracing

10 controller instance and the logging controller instance; and

11   selecting a formatter to provide a message format for the received message, wherein

12 the message format is defined based, at least in part, on a configuration file.

1 11. The method of claim 10, further comprising:

2   configuring the message format for the selected formatter.

1 12. The method of claim 11, wherein configuring the message format comprises

2 providing an identifier to the configuration file to identify the selected formatter.

1 13. The method of claim 12, wherein configuring the message format further comprises

2 specifying one or more fields for the message format.

1 14. The method of claim 13, wherein specifying one or more fields comprises specifying

2 at least one of

3   a timestamp field to indicate a time for the received message;

4   a location of origin field to indicate a source of the received message;

5   a thread identifier field to indicate a thread associated with the received message;

6   a message severity indicator field to indicate a severity level of the received message;

7 and

8   a message identifier field to identify the received message.

1 15. The method of claim 10, further comprising:

2   providing a filter to the specified output destination to selectively filter the message.

1 16. A system comprising:

2   a means for creating an instance of a tracing controller associated with specified

3 program code regions of an application, the tracing controller instance to receive and process

4 tracing method calls generated by the application when the specified program code regions

5 are executed;

6   a means for creating an instance of a logging controller associated with specified

7 categories related to the network, the logging controller to receive and process logging

8 method calls from network components associated with the categories;

9   a means for specifying an output destination to receive a message from at least one of

10 the tracing controller instance and the logging controller instance; and

11   a means for selecting a formatter to provide a message format for the received

12 message, wherein the message format is defined based, at least in part, on a configuration

13 file.

1 17. The system of claim 16, further comprising:

2   a means for configuring the message format for the selected formatter.

1 18. The system of claim 17, wherein the means for configuring the message format

2 comprises:

3   a means for specifying one or more fields for the message format.

1 19. The system of claim 18, wherein the means for specifying one or more fields

2 comprises a means for specifying at least one of

3   a timestamp field to indicate a time for the received message;

4   a location of origin field to indicate a source of the received message;

5   a thread identifier field to indicate a thread associated with the received message;

6   a message severity indicator field to indicate a severity level of the received message;

7 and

8   a message identifier field to identify the received message.

1   20.   An article of manufacture comprising:

2   an electronically accessible medium providing instructions that, when executed by an

3   apparatus, cause the apparatus to

4   create an instance of a tracing controller associated with specified program code

5   regions of an application, the tracing controller instance to receive and process tracing

6   method calls generated by the application when the specified program code regions are

7   executed;

8   create an instance of a logging controller associated with specified categories related

9   to the network, the logging controller to receive and process logging method calls from

10   network components associated with the categories;

11   specify an output destination to receive a message from at least one of the tracing

12   controller instance and the logging controller instance; and

13   select a formatter to provide a message format for the received message, wherein the

14   message format is defined based, at least in part, on a configuration file.

1   21.   The article of manufacture of claim 20, wherein the electronically accessible medium

2   provides further instructions that, when executed by the apparatus, cause the apparatus to

3   configure the message format for the selected formatter.

1   22.   The article of manufacture of claim 21, wherein the instructions that, when executed

2   by the apparatus, cause the apparatus to configure the message format for the selected

3   formatter cause the apparatus to provide one or more fields for the message format.

1   23.   An apparatus comprising:

2   an application; and

3   a processor and logic executable thereon to

4   create an instance of a tracing controller associated with specified program

5   code regions of the application, the tracing controller instance to receive and process tracing

6   method calls generated by the application when the specified program code regions are

7   executed;

8   create an instance of a logging controller associated with specified categories

9   related to a network, the logging controller to receive and process logging method calls from

10   network components associated with the categories;

11   specify an output destination to receive a message from at least one of the

12   tracing controller instance and the logging controller instance; and

13   select a formatter to provide a message format for the received message,

14   wherein the message format is defined based, at least in part, on a configuration file.

1   24.   The apparatus of claim 23, wherein the selected formatter is one of a list formatter, a

2   human-readable formatter, and a markup language formatter.

1   25.   The apparatus of claim 23, wherein the configuration file includes an identifier to

2   identify the formatter.

1   26.   The apparatus of claim 23, wherein the processor and logic executable thereon further

2   comprises:

3   a processor and logic executable thereon to configure the message format for the

4   selected formatter.

1   27.   The apparatus of claim 26, wherein the processor and logic executable thereon to

2   configure the message format comprises a processor and logic executable thereon to

3   specify one or more fields for the message format.

1   28.   The apparatus of claim 27, wherein the processor and logic executable thereon to

2   specify one or more fields for the message format comprises a processor and logic executable

3   thereon to specify at least one of

4   a timestamp field to indicate a time for the received message;

5   a location of origin field to indicate a source of the received message;

6   a thread identifier field to indicate a thread associated with the received message;

7   a message severity indicator field to indicate a severity level of the received message;

8   and

9   a message identifier field to identify the received message.